

Oklahoma State Workforce Briefing

Appendix D: 2018 Critical Occupations List

SOC	Description	2018 Jobs	2028 Jobs	Change (2018 to 2028)	Median Hourly Earnings	Typical Entry Level Education	Work Experience Required	Typical On-The-Job Training	For Educational Levels of High School Diploma or Less, there is a Certificate available.	Annual Openings	Apr 2018 Unique Job Postings
29-1069	Physicians and Surgeons, All Other	2,511	3,023	294	\$105.76	Doctoral or professional degree	None	Internship/residency		108	546
29-1021	Dentists, General	1,294	1,486	192	\$65.78	Doctoral or professional degree	None	None		57	74
11-9041	Architectural and Engineering Managers	2,191	2,114	110	\$56.68	Bachelor's degree	5 years or more	None		153	157
17-2171	Petroleum Engineers	2,673	2,860	172	\$55.32	Bachelor's degree	None	None		204	69
19-2042	Geoscientists, Except Hydrologists and Geographers	1,040	1,180	97	\$54.73	Bachelor's degree	None	None		113	12
29-1041	Optometrists	671	831	152	\$49.30	Doctoral or professional degree	None	None		38	8
29-1071	Physician Assistants	1,452	1,762	278	\$49.20	Master's degree	None	None		115	238
11-3021	Computer and Information Systems Managers	3,264	3,561	315	\$47.42	Bachelor's degree	5 years or more	None		277	115
11-3031	Financial Managers	6,532	7,073	509	\$43.58	Bachelor's degree	5 years or more	None		543	449
29-1171	Nurse Practitioners	1,385	1,727	342	\$43.36	Master's degree	None	None		109	221
17-2071	Electrical Engineers	1,548	1,341	68	\$41.40	Bachelor's degree	None	None		90	283
29-1131	Veterinarians	984	1,115	117	\$39.73	Doctoral or professional degree	None	None		50	47
29-1123	Physical Therapists	2,014	2,544	511	\$39.44	Doctoral or professional degree	None	None		143	572
15-1132	Software Developers, Applications	4,801	4,923	494	\$39.05	Bachelor's degree	None	None		345	1,030
17-2112	Industrial Engineers	2,609	1,901	156	\$38.60	Bachelor's degree	None	None		134	583
17-2051	Civil Engineers	2,269	2,512	205	\$38.15	Bachelor's degree	None	None		193	204
11-1021	General and Operations Managers	27,503	29,825	2,167	\$37.47	Bachelor's degree	5 years or more	None		2,523	1,066
17-2141	Mechanical Engineers	3,037	2,704	134	\$37.39	Bachelor's degree	None	None		182	390
11-9111	Medical and Health Services Managers	5,899	6,585	426	\$37.09	Bachelor's degree	Less than 5 years	None		532	491
17-1011	Architects, Except Landscape and Naval	785	902	108	\$36.77	Bachelor's degree	None	Internship/residency		73	12
15-1121	Computer Systems Analysts	3,388	3,757	580	\$36.73	Bachelor's degree	None	None		277	454
15-1133	Software Developers, Systems Software	2,947	2,536	211	\$35.78	Bachelor's degree	None	None		175	158
29-2021	Dental Hygienists	2,050	2,385	329	\$35.63	Associate's degree	None	None		166	51
11-9021	Construction Managers	2,996	3,222	238	\$35.55	Bachelor's degree	None	Moderate-term on-the-job training		234	191

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13-1081	Logisticians	2,280	2,436	114	\$35.28	Bachelor's degree	None	None		239	171
15-1122	Information Security Analysts	675	707	71	\$34.44	Bachelor's degree	Less than 5 years	None		52	197
13-1111	Management Analysts	4,492	5,201	492	\$33.84	Bachelor's degree	Less than 5 years	None		467	515
15-1141	Database Administrators	943	1,000	75	\$33.23	Bachelor's degree	None	None		68	91
17-2081	Environmental Engineers	710	785	61	\$32.38	Bachelor's degree	None	None		55	53
29-2032	Diagnostic Medical Sonographers	926	1,096	170	\$31.90	Associate's degree	None	None		69	40
29-9011	Occupational Health and Safety Specialists	1,363	1,502	86	\$31.41	Bachelor's degree	None	None		83	66
13-2051	Financial Analysts	1,780	1,883	205	\$30.80	Bachelor's degree	None	None		169	114
15-1142	Network and Computer Systems Administrators	2,897	3,019	170	\$30.52	Bachelor's degree	None	None		196	577
17-3023	Electrical and Electronics Engineering Technicians	1,510	1,549	22	\$30.16	Associate's degree	None	None		136	151
29-1127	Speech-Language Pathologists	1,617	1,865	228	\$30.00	Master's degree	None	Internship/residency		110	233
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	6,409	6,936	404	\$29.91	High school diploma or equivalent	Less than 5 years	None	Certificate Available	609	440
29-2035	Magnetic Resonance Imaging Technologists	330	373	43	\$29.83	Associate's degree	Less than 5 years	None		23	41
13-2052	Personal Financial Advisors	1,235	1,496	261	\$29.72	Bachelor's degree	None	Long-term on-the-job training		127	102
13-2011	Accountants and Auditors	14,926	17,050	2,066	\$29.34	Bachelor's degree	None	None		1,603	797
17-3026	Industrial Engineering Technicians	885	724	23	\$29.04	Associate's degree	None	None		64	85
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	9,396	10,572	1,152	\$28.94	High school diploma or equivalent	5 years or more	None	Certificate Available	1,072	190
29-1141	Registered Nurses	27,389	30,633	2,558	\$28.49	Associate's degree	None	None		1,751	5,483
15-2031	Operations Research Analysts	827	928	179	\$28.35	Bachelor's degree	None	None		67	62
13-1051	Cost Estimators	1,901	2,060	234	\$27.84	Bachelor's degree	None	Moderate-term on-the-job training		210	62
19-2041	Environmental Scientists and Specialists, Including Health	478	570	76	\$27.08	Bachelor's degree	None	None		56	15
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	3,883	3,849	76	\$27.07	Bachelor's degree	None	Moderate-term on-the-job training		338	224
13-1022	Wholesale and Retail Buyers, Except Farm Products	1,301	1,402	109	\$27.00	Bachelor's degree	None	Moderate-term on-the-job training		162	11
29-2011	Medical and Clinical Laboratory Technologists	2,041	2,348	253	\$26.82	Bachelor's degree	None	None		164	170
13-2061	Financial Examiners	429	549	58	\$26.52	Bachelor's degree	None	Long-term on-the-job training		44	15
53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	2,972	3,230	230	\$26.03	High school diploma or equivalent	Less than 5 years	None	Certificate Available	340	828
19-4041	Geological and Petroleum Technicians	1,302	1,406	104	\$25.92	Associate's degree	None	Moderate-term on-the-job training		148	10

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29-1031	Dietitians and Nutritionists	741	848	83	\$25.92	Bachelor's degree	None	Internship/residency		57	48
13-2072	Loan Officers	4,222	4,674	409	\$25.61	Bachelor's degree	None	Moderate-term on-the-job training		402	206
51-1011	First-Line Supervisors of Production and Operating Workers	8,589	8,382	177	\$25.56	High school diploma or equivalent	Less than 5 years	None	Certificate Available	831	604
47-5012	Rotary Drill Operators, Oil and Gas	1,989	2,114	125	\$25.29	No formal educational credential	None	Moderate-term on-the-job training		268	21
29-1126	Respiratory Therapists	1,149	1,248	94	\$25.11	Associate's degree	None	None		66	148
17-3022	Civil Engineering Technicians	719	762	43	\$25.08	Associate's degree	None	None		69	30
49-9051	Electrical Power-Line Installers and Repairers	2,175	2,498	312	\$24.81	High school diploma or equivalent	None	Long-term on-the-job training	Certificate Available	218	24
13-2041	Credit Analysts	615	676	62	\$24.36	Bachelor's degree	None	None		58	33
15-1134	Web Developers	943	1,096	157	\$24.34	Associate's degree	None	None		86	502
13-1151	Training and Development Specialists	2,902	3,032	175	\$24.32	Bachelor's degree	Less than 5 years	None		298	288
29-2034	Radiologic Technologists	2,321	2,512	139	\$24.22	Associate's degree	None	None		144	170
49-9041	Industrial Machinery Mechanics	4,691	5,528	959	\$23.66	High school diploma or equivalent	None	Long-term on-the-job training	Certificate Available	526	197
47-2111	Electricians	6,658	7,631	995	\$23.47	High school diploma or equivalent	None	Apprenticeship	Certificate Available	887	193
47-5011	Derrick Operators, Oil and Gas	1,153	1,254	101	\$23.17	No formal educational credential	None	Short-term on-the-job training	Certificate Available	158	0
47-2152	Plumbers, Pipefitters, and Steamfitters	6,439	7,299	818	\$22.23	High school diploma or equivalent	None	Apprenticeship	Certificate Available	795	87
19-4031	Chemical Technicians	557	590	38	\$22.07	Associate's degree	None	Moderate-term on-the-job training		58	32
47-4011	Construction and Building Inspectors	1,688	1,904	189	\$21.81	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training		211	37
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	3,421	3,964	531	\$21.11	Postsecondary nondegree award	None	Long-term on-the-job training		406	140
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	1,915	2,109	149	\$20.90	High school diploma or equivalent	None	Long-term on-the-job training	Certificate Available	207	50
47-5013	Service Unit Operators, Oil, Gas, and Mining	3,281	3,432	151	\$20.54	No formal educational credential	None	Moderate-term on-the-job training		437	136
51-4041	Machinists	6,066	5,653	250	\$20.07	High school diploma or equivalent	None	Long-term on-the-job training	Certificate Available	596	224
33-3051	Police and Sheriff's Patrol Officers	7,866	9,314	1,386	\$19.77	High school diploma or equivalent	None	Moderate-term on-the-job training	Certificate Available	687	38
15-1151	Computer User Support Specialists	7,899	8,244	360	\$19.69	Some college, no degree	None	None		621	896
49-9043	Maintenance Workers, Machinery	2,777	2,956	211	\$19.64	High school diploma or equivalent	None	Long-term on-the-job training	Certificate Available	309	0
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	11,338	11,576	238	\$19.61	Bachelor's degree	None	None		833	320
25-2022	Middle School Teachers, Except Special and Career/Technical Education	7,250	7,411	161	\$19.37	Bachelor's degree	None	None		548	82
33-2011	Firefighters	3,656	4,425	736	\$19.34	Postsecondary nondegree award	None	Long-term on-the-job training		339	9

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53-3032	Heavy and Tractor-Trailer Truck Drivers	24,021	26,425	2,426	\$19.28	Postsecondary nondegree award	None	Short-term on-the-job training		2,928	17,573
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	2,847	3,254	393	\$19.16	High school diploma or equivalent	None	Long-term on-the-job training	Certificate Available	309	484
51-4121	Welders, Cutters, Solderers, and Brazers	9,334	9,583	329	\$19.07	High school diploma or equivalent	None	Moderate-term on-the-job training	Certificate Available	1,045	281
25-2052	Special Education Teachers, Kindergarten and Elementary School	2,140	2,192	52	\$18.94	Bachelor's degree	None	None		162	61
25-2021	Elementary School Teachers, Except Special Education	16,151	16,515	364	\$18.67	Bachelor's degree	None	None		1,221	799
29-2061	Licensed Practical and Licensed Vocational Nurses	11,306	11,995	469	\$18.64	Postsecondary nondegree award	None	None		893	586
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	5,881	5,261	257	\$18.07	High school diploma or equivalent	None	Moderate-term on-the-job training	Certificate Available	638	219
49-3021	Automotive Body and Related Repairers	1,672	1,830	157	\$18.06	High school diploma or equivalent	None	Long-term on-the-job training	Certificate Available	182	30
47-2073	Operating Engineers and Other Construction Equipment Operators	6,184	7,102	900	\$17.95	High school diploma or equivalent	None	Moderate-term on-the-job training	Certificate Available	815	65
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	3,197	3,083	309	\$17.69	High school diploma or equivalent	None	Moderate-term on-the-job training	Certificate Available	322	85
17-3025	Environmental Engineering Technicians	349	372	26	\$17.57	Associate's degree	None	None		33	9
47-2031	Carpenters	5,070	5,533	468	\$17.42	High school diploma or equivalent	None	Apprenticeship	Certificate Available	526	78
29-2031	Cardiovascular Technologists and Technicians	599	691	92	\$16.59	Associate's degree	None	None		43	126
51-8031	Water and Wastewater Treatment Plant and System Operators	2,059	2,372	314	\$15.38	High school diploma or equivalent	None	Long-term on-the-job training		215	36
29-2012	Medical and Clinical Laboratory Technicians	2,201	2,583	339	\$14.99	Associate's degree	None	None		183	87
29-2056	Veterinary Technologists and Technicians	906	1,121	211	\$14.98	Associate's degree	None	None		101	38
53-3033	Light Truck or Delivery Services Drivers	9,111	9,687	592	\$14.75	High school diploma or equivalent	None	Short-term on-the-job training	Certificate Available	1,051	2,263
19-4091	Environmental Science and Protection Technicians, Including Health	371	403	31	\$14.41	Associate's degree	None	None		48	105
29-2052	Pharmacy Technicians	5,248	5,646	319	\$13.98	High school diploma or equivalent	None	Moderate-term on-the-job training	Certificate Available	462	367
29-2081	Opticians, Dispensing	853	1,074	221	\$13.71	High school diploma or equivalent	None	Long-term on-the-job training		90	6
29-2041	Emergency Medical Technicians and Paramedics	3,571	4,409	837	\$13.23	Postsecondary nondegree award	None	None		324	105
53-3021	Bus Drivers, Transit and Intercity	1,074	1,245	170	\$13.05	High school diploma or equivalent	None	Moderate-term on-the-job training	Certificate Available	157	36